

Liquid Transport Cavity Saw Blade

Abstract

A saw blade has a saw body and a cutting edge for cutting during movement of the saw blade. A lubricating guide support has a bearing surface disposed immediately adjacent the saw body for proper alignment of the saw blade during cutting. The guide support contains liquid exposed to the saw body at the bearing surface. The saw body defines a plurality of cavities whereby the liquid is applied to the saw body as it passes by the bearing surface during movement of the saw blade. Each one of the cavities is arranged to pass by the exposed liquid and is dimensioned to receive liquid therein for transport. The saw body has an axial thickness no greater than 0.08 inches. The liquid transport cavity has a triangular cross-section with a trailing edge oriented at an approximate negative 5 degrees to a radius of the saw body.